

REMARKS

Applicant appreciates the Examiner's thorough consideration provided the present application. Claims 1-10 are now present in the application. Claims 1, 5 and 10 have been amended by the present amendment. Claims 1, 5 and 10 are independent. Reconsideration of this application, as amended, is respectfully requested.

Rejection under 35 U.S.C. § 112, first paragraph

Regarding the rejection of claims 1-10 under 35 U.S.C. § 112, first paragraph, it is respectfully noted independent claims 1, 5 and 10 have been amended to clarify that the weighting filter function is formed by cascaded functions of the receive filter and the measuring filter, with the demodulator directly between the receive and measuring filters. These features are supported at least by Figure 2, for example, which illustrates the weighting filter function being formed by cascaded functions of the receive filter 20 and the measuring filter 22, with the modulator 21 directly between the receive and measuring filters 20 and 22.

Accordingly, in light of the above comments, it is respectfully requested this rejection be withdrawn.

In addition, it is noted the claims have only been amended under 35 U.S.C. § 112, first paragraph, and have not been rejected under any prior art. However, in the previous Office Action, the claims were rejected under 35 U.S.C. § 103(a) as unpatentable over Applicant's Admitted Prior Art (AAPA) in view of a combination of different references including Sumino et

al., Nishimura and Tsuda . Similar to the comments provided in the previous response, it is respectfully noted combining Sumino et al. with AAPA would merely replace the weighting filter 11 with two directly cascaded filter functions. The combination of Sumino et al. and AAPA do not produce the weighting filter function being formed by cascaded functions of a receive filter and a measuring filter, with a demodulator directly between the receive and measuring filters. Similar comments apply to the other references.

In more detail, and with reference to Figure 2 of the present invention, for example, the receive filter 20 is cascaded with the filter function of a measuring filter 22. With this arrangement, the measuring filter 22 can be built more simple and cheaper. Further, the demodulator 21 is directly between the receive filter 20 and the measuring filter 22, by which special signals are eliminated (see page 2, lines 2-5 in the specification). The demodulator 21 in AAPA is only for eliminating errors of the signal sent to the reference filter 13. According to the present invention, the attribute of the demodulator 21 is additionally used for error correction of the signal sent to the measuring filter 22. To achieve a similar result, AAPA requires the additional memory 9 and an error correction stage 10. The stages 9 and 10 in AAPA are no longer necessary with the arrangement of the present invention, because the measuring signal is directly sent from the output of the demodulator 21 to the measuring filter 22. The applied art does not teach or suggest these features.

Accordingly, it is respectfully submitted independent claims 1, 10 and 15 and each of the claims depending therefrom are allowable.

ENTRY OF AMENDMENT

In addition, it is respectfully requested this amendment be entered as it is believed no new issues have been raised. For example, the claims have not been amended to overcome any cited art.

CONCLUSION

All the stated grounds of rejection have been properly traversed and/or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider all presently pending rejections and that they be withdrawn.

It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to Issue.

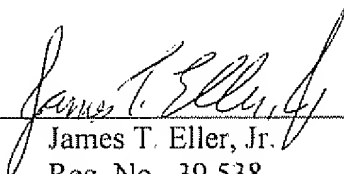
In the event there are any matters remaining in this application, the Examiner is invited to contact David A. Bilodeau, Reg. No. 42,325, at (703) 205-8072 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

Date: JAN. 30, 2007

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By  _____
James T. Eller, Jr.
Reg. No. 39,538
8110 Gatehouse Road, Suite 100 East
P. O. Box 747
Falls Church, VA 22040-0747
(703) 205-8000
Attorney for Applicant